APRIL/MAY 2023

CBT31 — MICROBIOLOGY

Time: Three hours

Maximum: 75 marks

SECTION A — $(10 \times 2 = 20 \text{ marks})$

Answer ALL questions.

- Define spontaneous generation.
- 2. Explain any two characteristics of Kingdom Protista.
- 3. Recall the use of like microscope.
- 4. Outline the morphology of bacteria.
- 5. What is axenic culture?
- 6. Compare solid and liquid media.
- 7. Show the optimum pH required for the growth of bacteria.
- 8. Summarise the physical agents required for sterilization.
- 9. What is food spoilage?
- 10. Relate the role of microbes as source of protein.

SECTION B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions.

11. (a) Choose the scientist Antony Van
Leeuwenhoek and write about his discoveries
and inventions in the field of microbiology.

Or

- (b) Simplify the structure of Archaebacteria.
- 12. (a) Make use of fungi to explain its structure and function.

Or

- (b) Examine the life cycle pattern of plasmodium.
- 13. (a) What is enrichment medium? Identify its use in microbiology laboratory.

Or

- (b) Analyse the steps employed in pour plate method.
- 14. (a) How radiation is utilised in sterilization process?

Or

- (b) Examine the process of filtration and its role in sterilization.
- 15. (a) Identify the role of microbes in food spoilage.

Or.

(b) Distinguish cholera and typhoid.

Answer any THREE questions,

- 16. Compare prokaryotic and Eukaryotic micro organism.
- 17. Appraise the ultra structure of bacteria with a neat labelled diagram.
- 18. Explain the nutritional types of microorganism.
- 19. Compile the techniques employed in antimicrobial chemotherapy evolution.
- 20. Discuss the cause, pathogenesis, diagnosis of hepatitis.

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